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Cable Release Latch Operating Mechanism

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Cable Release Latch Operating Mechanism

Abstract: A technique is disclosed to operate cable release latches which are not accessible by a user's fingers.

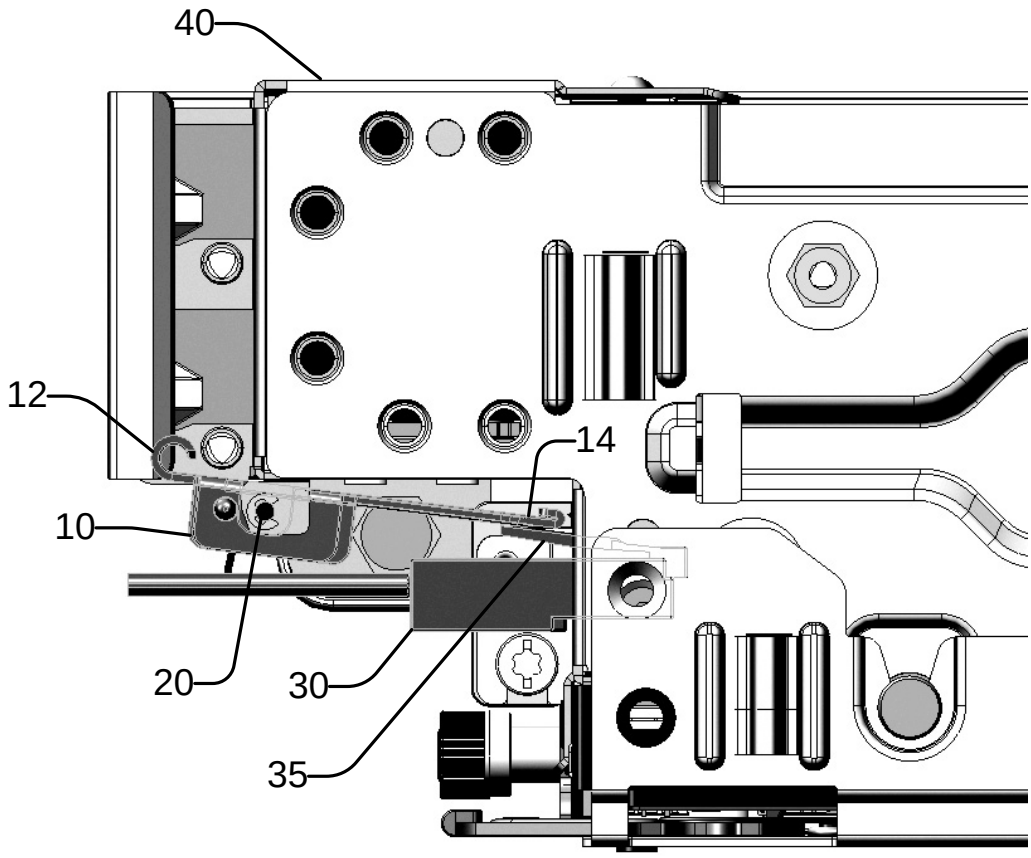
This disclosure relates to the field of modular electronic equipment, such as server systems.

Space in equipment such as server systems is often constrained so as to package the most circuitry and functionality in the smallest possible space. In some systems, due to such space constraints, some I/O ports to which external cables get connected are located underneath expansion slots. The geometry of the expansion slots block a user's fingers from reaching the latch mechanism of the cable plugs.

According to the present disclosure, and as understood with reference to the Figure, a release bracket 10 which is rotatable about a fixed axis 20 acts as a lever to allow a user to unlatch one or more cable plugs 30 which are inaccessible to a user's fingers.

To remove the cable plugs 30, the user pushes the release bracket 10 up at one end 12. The end 12 is readily accessible to the user's fingers. Pushing the release bracket 10 at that end 12 makes the bracket 10 rotate about the axis 20, which is fixed to the cage 40. The opposing end 14 of the release bracket 10 moves down because of the rotation, and actuates the release latch 35 on the cable plugs 30. Once there is sufficient movement of the release latch 35, the plugs 30 are unlatched and can easily be pulled out from the I/O port connectors.

The disclosed technique advantageously provides a simple and convenient way for a user to unplug cables from equipment in such space-saving system configurations.



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